

Total Suspended Solids (TSS) Dried at 103 - 105°C
SM 21st 2540 D

Page 1 of 1

Facility Name: _____ VELAP ID _____

Assessor Name: _____ Analyst Name: _____ Inspection Date _____

Relevant Aspect of Standards**Method
Reference****Y****N****N/A****Comments***Records Examined:* SOP Number/ Revision/ Date _____ Analyst: _____

Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____

Glass fiber filters are Whatman grade 934AH; Gelman type A/E, Millipore type AP40, E-D Scientific Specialties grade 161, or other product that gives demonstrably equivalent results.

2540D.3.b,
2540C.2.a

Sample volume yields 2.5-200 mg dried residue, or volume is increased to a liter. If complete filtration takes more than 10 minutes, filter diameter is increased or sample volume is decreased.

2540D.3.b

Filters are prepared by inserting wrinkled side up into the filtration apparatus, washing with three successive 20 mL portions of reagent-grade water, drying at 103-105°C for one hour, and storing in a dessicator.

2540D.3.a

Is the moisture content of desiccant monitored?

2540 B 2.d

Samples are either stirred while pipetting or shaken well before pouring into a graduated cylinder.

2540D.3.c*

Sample filtration is completed within 10 minutes.

2540D.3.b,
2540C.3.c

After filtering samples, filters are washed with 3 successive 10 mL volumes of distilled water while vacuum is applied, allowing complete drainage between rinses.

2540D.3.c

Suction is continued for about 3 minutes after rinsing the filtered sample.

2540D.3.c

Filters (or gooch crucible and filter combinations) are dried for at least one hour at 103 - 105°C, cooled in a desiccator, and weighed.

2540D.3.c

The drying, cooling, desiccating, and weighing cycle is repeated for all samples until a constant weight is obtained or the weight change is less than 4% of the previous weight or 0.5 mg, whichever is less.

2540D.3.c

Results are calculated according to the method.

2540D.4

Are at least 10% of samples (or one per batch) analyzed in duplicate?

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Notes/Comments: *The use of graduated cylinders for TSS is approved by EPA: <http://www.epa.gov/waterscience/methods/update/questions.html#tss>